

**SYSTEM AND METHOD OF PROVIDING A SPREAD SPECTRUM
PULSE WIDTH MODULATOR CLOCK**

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Abstract

A system and method of creating a pulse train signal of a pulse width modulator whose fundamental frequency is time-varying is disclosed. The electrical system includes a pulse width modulator which provides a pulse train signal. The system also includes a power source connected to the pulse width generator. The system further includes a binary counter having an input and a plurality of outputs, wherein the pulse train signal generated by the pulse width modulator is operatively coupled to the input of the binary counter. A plurality of resistors are operatively coupled to the plurality of outputs of the binary counter and operatively coupled to a node. A timing resistor is operatively coupled between a first voltage potential and the node, while a timing capacitor is operatively coupled between the node and a second voltage potential. The node is operatively coupled to an input of the pulse width modulator.

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